

BEMO-COMPACT

HEAT PROTECTION

relative halter height in mm:	80	100	120	140	160	180	200	220	240	260
Thick insulation layer in mm:	120	140	160	180	200	220	240	260	280	300
Total thickness roof construction in mm:	215	235	255	275	295	315	335	355	375	395
U-value without considering punctiform thermal bridges:	0.290	0.251	0.221	0.197	0.178	0.163	0.150	0.138	0.129	0.120

U-value considering punctiform thermal bridges

Aluminium Halter height:	80+TK5	100+TK5	120+TK5	140+TK5	160+TK5	180+TK5	200+TK5	220+TK5	220+TK15	260 fictive
U-value:	0.465	0.420	0.384	0.355	0.329	0.308	0.289	0.271	0.257	0.242
GFK Halter height:	85	105	125	145	165	185	205	225	245	245+DK20
U-value:	0.294	0.254	0.224	0.200	0.180	0.165	0.152	0.140	0.130	0.121

SOUND PROTECTION

Weight per m ² in kg:	24.05	26.05	28.05	30.05	32.05	34.05	36.05	38.05	40.05	42.05
predictable sound reduction index R in dB:	39.60	40.30	40.94	41.54	42.10	42.62	43.12	43.59	44.03	44.45

Measures to improve sound insulation:

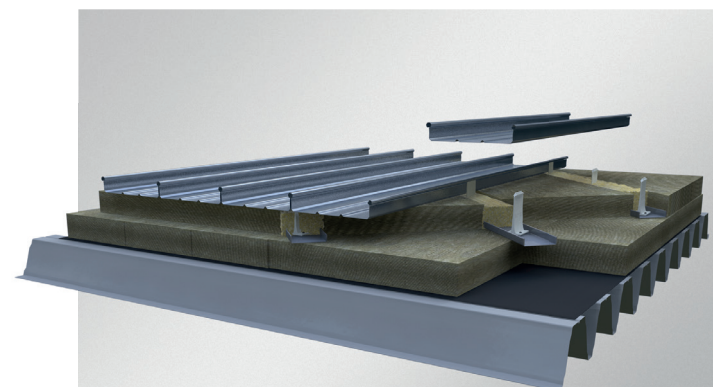
Installation of a layer of gipsum board with 8.5 kg/m²:

Weight per m ² in kg:	32.55	34.55	36.55	38.55	40.55	42.55	44.55	46.55	48.55	50.55
predictable sound reduction index R in dB:	42.23	42.75	43.24	43.70	44.14	44.56	44.96	45.34	45.70	46.05

Installation of a soundproofing panel with 17.5kg/m²

Weight per m ² in kg:	41.55	43.55	45.55	47.55	49.55	51.55	53.55	55.55	57.55	59.55
predictable sound reduction index R in dB:	44.35	44.76	45.15	45.52	45.88	46.22	46.55	46.87	47.18	47.48

The values mentioned are reference values.



- ❖ BEMO standing seam profile 65 – 400, 1.0 mm aluminium
- ❖ Aluminium-Halter incl. 5 mm Thermal Spacer
- ❖ GFK Halter 1.5 pcs/m²
- ❖ 1st layer of stone wool insulation 037, 100 kg/m³ 10 cm
- ❖ 2nd layer of stone wool insulation 037, 100 kg/m³ 10 cm
- ❖ Vapour barrier
- ❖ Decking 0.75 mm steel

Main uses

- ❖ Structures of steel, timber or concrete
- ❖ Buildings with increased requirements for heat and sound protection

Benefits

- ❖ Reduction of thermal bridge
- ❖ Very high sound insulation
- ❖ Very good summer heat protection
- ❖ Perfect load transfer at high snow masses